

# PTZ-4225IR-N

# 2MP 25x Starlight IR PTZ Network Camera



- · 1/2.8" 2Megapixel STARVIS™ CMOS
- · Powerful 25x optical zoom
- · Starlight technology
- Max. 25/30fps@1080P
- · IVS
- · Support PoE+
- · IR distance up to 100m
- · IP66



### **System Overview**

Featuring powerful optical zoom and accurate pan/tilt/zoom performance, the camera provides a wide monitoring range and great detail. The camera delivers 1080P resolution at 25/30fps. The camera is equipped with smooth control, high quality image, and good protection, meeting compact size demands of video surveillance applications.

### **Functions**

### Starlight Technology

For challenging low-light applications, Dahua's Starlight Ultra-low Light Technology offers best-in-class light sensitivity, capturing color details in low light down to 0.005 lux. The camera uses a set of optical features to balance light throughout the scene, resulting in clear images in dark environments.

### **Wide Dynamic Range**

The camera achieves vivid images, even in the most intense contrast lighting conditions, using industry-leading wide dynamic range (WDR) technology. For applications with both bright and low lighting conditions that change quickly, True WDR (120 dB) optimizes both the bright and dark areas of a scene at the same time to provide usable video.

### Smart H.265+

Smart H.265+ is the optimized implementation of the H.265 codec that uses a scene-adaptive encoding strategy, dynamic GOP, dynamic ROI, flexible multi-frame reference structure and intelligent noise reduction to deliver high-quality video without straining the network. Smart H.265+ technology reduces bit rate and storage requirements by up to 70% when compared to standard H.265 video compression.

### **Environmental**

Dahua cameras operate in extreme temperature environments, rated for use in temperatures from -40 °C to +70 °C (-40 °F to +158 °F) with 95% humidity. Subjected to rigorous dust and water immersion tests and certified to the IP66 Ingress Protection rating makes it suitable for demanding outdoor applications.

### **Protection**

The camera allows for 6KV lightning rating, which provides effective protection for both the camera and its structure against lightning.

### Interoperability

The camera conforms to the ONVIF (Open Network Video Interface Forum) and PSIA (Physical Security Interoperability Alliance) specifications, ensuring interoperability between network video products regardless of manufacturer.



#### Video **Technical Specification** H.265+/H.265/H.264+/H.264 Camera Compression 1/2.8" STARVIS™ CMOS Image Sensor Streaming Capability 3 Streams 1080P(1920×1080)/720P(1280×720)/ Effec ve Pixels 1920(H) x 1080(V), 2 Megapixels Resolution D1(704×576/704×480)/CIF(352×288/352×240) RAM/ROM 1024M/128M Main stream: 1080P/720P(1 ~ 25/30fps) Scanning System Progressive Sub stream1: D1/CIF(1 ~ 25/30fps) Frame Rate **Electronic Shutter Speed** 1/1s~1/30,000s Sub stream2: 720P/D1/CIF(1 ~ 25/30fps) Minimum Illumina on Color: 0.005Lux@F1.6; 0Lux@F1.6 (IR on) Bit Rate Control CBR/VBR S/N Ra o Bit Rate H.265/H.264: 448K ~ 8192Kbps IR Distance Distance up to 100m (328) Day/Night Auto(ICR) / Color / B/W IR On/Off Control Auto/Manual **Backlight Compensation** BLC / HLC / WDR(120dB) IR LEDs 6 White Balance Auto, ATW, Indoor, Outdoor, Manual Lens Gain Control Auto / Manual Focal Length 4.8mm~120mm Noise Reduction Ultra DNR (2D/3D) Max. Aperture F1.6 ~ F4.4 **Motion Detetion** Support H: 59.2° ~ 2.4° Angle of View Region of Interest Support Optical Zoom 25x Electronic Image N/A Stabilization (EIS) Focus Control Auto/Manual Defog Support Close Focus Distance 100mm~ 1000mm Digital Zoom 16x **DORI Distance** 180° \*Note: The DORI distance is a "general proximity" of distance which makes it easy to Flip pinpoint the right camera for your needs. The DORI distance is calculated based on sensor specification and lab test result according to EN 62676-4 which defines the Up to 24 areas Privacy Masking criteria for Detect, Observe, Recognize and Identify respectively. Audio Detect Observe Recognize Identify Compression G.711a/G.711Mu/G.726/AAC 1613m(5292ft) 646m(2119ft) 323m(1060ft) 161m(528ft) Network PTZ Ethernet RJ-45 (10Base-T/100Base-TX) Pan: 0° ~ 360° endless; Tilt: -15° ~ 90°, auto flip 180° Pan/Tilt Range IPv4/IPv6,HTTP,HTTPS,SSL,TCP/IP, UDP,UPnP, Manual Control Speed Pan: 0.1° ~200° /s; Tilt: 0.1° ~120° /s ICMP, IGMP, SNMP, RTSP, RTP, SMTP, NTP, DHCP, Protocol DNS,PPPOE,DDNS,FTP, IP Filter,QoS,Bonjour,802.1x Pan: 240° /s; Tilt: 200° /s Preset Speed ONVIF, PSIA, CGI Interoperability 300 Presets Streaming Method Unicast / Mul cast PTZ Mode 5 Pattern, 8 Tour, Auto Pan ,Auto Scan Max. User Access 20 users Human-oriented focal Length/ speed adaptation Speed Setup NAS (Network A ached Storage), Local PC for **Edge Storage** Auto restore to previous PTZ and lens status after instant recording, Micro SD card 128GB Power up Action power failure Web Viewer IE, Chrome, Firefox, Safari Activate Preset/ Scan/ Tour/ Pattern if there is no Idle Motion command in the specified period Management Software Smart PSS, DSS Protocol DH-SD **Smart Phone** IOS, Android Intelligence Certifications

Cer fica ons

CE: EN55032/EN55024/EN50130-4

FCC: Part15 subpartB, ANSI C63.4-2014

UL: UL60950-1+CAN/CSA C22.2,No.60950-1

N/A

Tripwire, Intrusion, Abandoned/Missing, Face

Auto Tracking

IVS

### Interface

Video Interface	N/A
RS485	N/A
Audio I/O	1/1
Alarm I/O	2/1

### Electrical

Power Supply	DC 12V/3A, PoE+(802.3at)
Power Consumption	13W,20W (IR on)

### Environmental

Operating Conditions	-40°C ~ 70°C (-40°F ~ +158°F) / Less than 95% RH
Ingress Protection	IP66
Vandal Resistance	N/A

### Construction

Casing	Metal
Dimensions	Ф160(mm) x 295(mm)
Net Weight	3kg(6.61lb)
Gross Weight	4.2kg(9.26lb)

### **Ordering Information** Part Number Descrip on Type 2MP 25x Starlight IR PTZ Network DH-SD49225T-HN Camera, WDR, PAL 2MP 25x Starlight IR PTZ Network DH-SD49225TN-HN Camera, WDR, NTSC 2MP PTZ Camera 2MP 25x Starlight IR PTZ Network SD49225T-HN Camera, WDR,PAL 2MP 25x Starlight IR PTZ Network Camera, WDR,NTSC SD49225TN-HN PFB305W Wall Mount PFA111 Mount Adapter DC12V/3A Power Adapter PFA140 Power Box PFB300C Ceiling Mount Accessories PFA120 Water-proof Junction Box PFA150 Pole Mount PFA151 Corner Mount PFB303S Parapet Mount

### **Accessories**

### Included:



PFB305W Wall Mount

### Optional:



PFA111 Mount Adapter



DC12V/3A Power Adapter



PFA140 Power Box



PFB300C Ceiling Mount



PFA120 Junction Box



PFA150 Pole Mount



PFA151 Corner Mount



PFB303S Parapet Mount

Ceiling Mount	Junction Mount
PFA111 + PFB300C	PFB305W + PFA120
Power Box Mount	Pole Mount

Power Box Mount	Pole Mount
PFB305W + PFA140	PFB305W + PFA150
Corner Mount	Parapet Mount
PFB305W + PFA151	PFA111+ PFB303S

## Dimensions (mm)



